

BEAR RIVER BASIN

1

10020100 BEAR RIVER ABOVE RESERVOIR, NEAR WOODRUFF, UT

LOCATION.--Lat 41°26'04", long 111°01'01", in NE^{1/4}NW^{1/4}NW^{1/4} sec. 29, T. 17 N., R. 120 W., Uinta County, Wyoming, Hydrologic Unit 16010101, on right bank 9.3 mi upstream from Woodruff Narrows Dam and 10 mi southeast of Woodruff.

DRAINAGE AREA.--752 mi².

PERIOD OF RECORD.--October 1961 to current year.

REVISED RECORDS.--WDR UT-74-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 6,455 ft above NGVD of 1929, from river-profile map.

REMARKS.--Records good except for estimated daily discharges, which are fair. Diversion for irrigation of about 43,500 acres above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,150 ft³/s, Jun 2, 1983, gage height, 6.17 ft; minimum, no flow several days during Aug, Sep 1988 and Sep 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 782 ft³/s, May 21, gage height, 3.36 ft; minimum daily discharge, 0.00 ft³/s, Sep 1, 2, 4 and 5.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	6.4	6.5	e35	e37	e60	e101	207	576	14	1.6	e0.00
2	1.5	5.7	6.5	e36	e36	e64	e103	201	587	12	2.0	e0.00
3	1.4	5.8	7.4	e36	e36	e66	e105	151	489	11	1.6	0.09
4	1.4	6.3	8.8	e36	e37	e68	e107	149	358	9.2	1.7	e0.00
5	1.4	6.4	23	e37	e38	e70	e108	152	259	7.7	1.2	e0.00
6	1.6	6.4	52	e38	e39	e72	e108	195	232	7.6	0.93	0.10
7	1.8	7.1	52	e38	e41	e72	e112	242	222	9.2	0.95	0.16
8	1.9	9.2	39	e37	e43	e74	e115	293	204	7.5	0.78	0.33
9	2.0	7.6	e38	e37	e45	e76	117	245	194	4.0	0.66	0.29
10	2.3	8.4	e38	e38	e47	e74	123	181	189	3.6	0.79	1.3
11	2.4	8.1	e37	e39	e49	e74	154	153	172	7.6	0.72	1.4
12	2.8	8.2	e37	e40	e50	e73	110	126	129	4.8	0.81	2.2
13	3.0	8.1	e37	e40	e52	e70	92	93	105	4.0	1.1	2.3
14	3.1	7.9	e36	e39	e50	e70	89	98	83	5.2	0.89	2.1
15	3.1	7.3	e36	e39	e50	e67	114	175	71	4.3	0.46	1.9
16	3.2	6.6	e36	e38	e49	e65	166	228	54	5.1	0.35	1.7
17	3.4	6.7	e35	e38	e48	e68	148	220	42	5.0	0.24	2.0
18	3.4	6.4	e35	e39	e48	e72	131	197	32	7.6	0.19	2.4
19	3.3	6.2	e35	e40	e48	e73	110	318	29	14	0.45	2.6
20	3.5	5.9	e36	e41	e50	e76	116	462	30	14	0.65	6.3
21	3.6	6.0	e37	e41	e54	e78	100	613	36	17	1.2	5.2
22	4.1	6.6	e38	e41	e57	e82	99	562	38	16	1.1	3.1
23	4.5	8.6	e37	e40	e58	e86	106	391	36	14	1.0	2.7
24	4.6	7.5	e36	e39	e56	e90	95	295	33	10	1.1	2.8
25	5.2	8.1	e35	e37	e56	e93	93	226	33	7.7	1.3	2.9
26	5.9	6.6	e34	e36	e54	e93	92	184	31	5.4	0.77	2.7
27	5.8	5.9	e33	e35	e55	e96	132	179	27	3.6	0.42	2.7
28	5.8	6.2	e32	e34	e58	e96	152	194	24	2.7	0.35	3.1
29	6.6	7.3	e32	e35	---	e98	115	243	20	2.2	0.23	2.8
30	9.0	7.9	e33	e35	---	e98	133	341	17	2.0	0.16	3.4
31	7.0	---	e34	e36	---	e99	---	474	---	1.9	0.11	---
TOTAL	110.0	211.4	1012.2	1170	1341	2413	3446	7788	4352	239.9	25.81	58.57
MEAN	3.548	7.047	32.65	37.74	47.89	77.84	114.9	251.2	145.1	7.739	0.833	1.952
MAX	9.0	9.2	52	41	58	99	166	613	587	17	2.0	6.3
MIN	1.4	5.7	6.5	34	36	60	89	93	17	1.9	0.11	0.00
AC-FT	218	419	2010	2320	2660	4790	6840	15450	8630	476	51	116

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2002, BY WATER YEAR (WY)

MEAN	72.77	72.30	71.61	68.07	83.54	165.1	335.0	798.3	841.1	196.4	49.21	48.43
MAX	437	198	181	147	312	627	671	1957	2564	1191	340	288
(WY)	1983	1974	1984	1984	1986	1986	1969	1984	1986	1995	1983	1983
MIN	3.03	6.06	7.21	6.76	13.8	26.8	77.7	104	54.6	4.41	0.68	0.49
(WY)	1965	1989	1989	1993	1977	1977	1977	1977	1992	2000	2000	1988

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1962 - 2002

ANNUAL TOTAL	34352.45				22167.88							
ANNUAL MEAN	94.12				60.73				233.6			
HIGHEST ANNUAL MEAN										583		1986
LOWEST ANNUAL MEAN										45.1		1977
HIGHEST DAILY MEAN	1400	May 17			613	May 21			3900	Jun 2	1983	
LOWEST DAILY MEAN	0.11	Aug 31			0.00	Sep 1			0.00	Aug 23	1988	
ANNUAL SEVEN-DAY MINIMUM	0.14	Aug 26			0.04	Aug 31			0.00	Aug 30	1988	
ANNUAL RUNOFF (AC-FT)	68140				43970				169300			
10 PERCENT EXCEEDS	269				159				690			
50 PERCENT EXCEEDS	32				35				84			
90 PERCENT EXCEEDS	1.4				1.3				8.6			

e Estimated